

Abstract:

A conventional crusher forms a hollow space between paralleled straight portions of a wedge body portion and inner side surfaces of expanding members at the time of performing an expanding operation and hence, an expanding force of tapered portions of the wedge is not transmitted to the whole expanding members whereby the force is dispersed and a large crushing force cannot be obtained.

Accordingly, the crusher of the present invention comprises left and right expanding members for crushing, a wedge which is held between the left and right expanding members and expand the left and right expanding members, and a hydraulic cylinder which advances and retracts the wedge, wherein a sector connection portion is formed on a proximal end portion of the wedge, a spearhead-like tip-end expanding portion having a spearhead-shaped tip end is formed on a distal end thereof, spearhead-like intermediate expanding portions having a spearhead shape are formed on an upstream side of the tip-end expanding portion, both side surfaces of the connection portion, tip-end expanding portions, and the intermediate expanding portions are formed in a tapered surface with a same angle, and tapered surfaces of the same shape as the tapered surfaces of the wedge are formed on the inner surfaces of the left and right expanding members.